

Sampling Order – Pavillion, Wyoming Well MW01. – Continued

[EPA, U.S. Environmental Protection Agency; mL, milliliter; HCl, hydrochloric acid; mod, modified; ; SIM, selective ion monitoring; BTEX, the compounds benzene, toluene, ethyl benzene, and xylene ; MTBE, methyl tert- butyl ether; HNO₃, nitric acid; H₂SO₄, sulfuric acid; NO₃, nitrate; NO₂, nitrite; NH₄, ammonia; N₂, Nitrogen; Ar, Argon; CH₄, methane; CO₂, Carbon dioxide; O₂, oxygen; d18O, delta-18 of oxygen representing the ratio of oxygen-18 to oxygen 16 isotopes; d2H, delta-2 of hydrogen represents the ratio of hydrogen-2 to hydrogen-1 isotopes; d13C of DIC, delta-13 of carbon of dissolved inorganic carbon.]

Laboratory Method	Method Description	Bottle Type/s	Processing	Preservation	Hold Time
Unfiltered Inorganics & Other Analyses					
EPA 9060	Total inorganic carbon	1-500 mL amber glass	unfiltered	Chill	14 days ^a
	Acid neutralizing capacity, hydroxide, bicarbonate, carbonate	1-500 mL polyethylene	unfiltered	None	Field
EPA 6020, 6010B	Metals, total/Mercury, total	1-500 mL polyethylene bottle	unfiltered	pH to <2 with HNO ₃	6 months ^a /28 days ^a
EPA 365.1	Phosphorus, Total	1-250 mL Amber glass	unfiltered	pH to <2 with H ₂ SO ₄ , chill	28 days ^a
EPA 9060	Total organic carbon	1-500 mL amber glass	unfiltered	pH to <2 with H ₂ SO ₄ , chill	28 days ^a
EPA 425.1	Methylene Blue Active Substances	1-500 mL polyethylene bottle	unfiltered	Chill	48 hours ^d
	Complete compositional gas analysis ¹³ C/ ¹² C (d ¹³ C) and ² H/ ¹ H (dD) of gases	1000 mL glass septum bottle	unfiltered	bactericide capsule	3 months ^a
		Can be taken from above bottle	unfiltered	bactericide capsule	3 months ^a
LC 1565	Tritium	1 - 1 Liter polyethylene bottle with polyseal cap	unfiltered	none	365 days
	Sulfur Hexaflouride	2 - Liter Amber safety glass	unfiltered	Keep in cooler, out of sun	180 days
	Chlorflourocarnbons	4 - 125 mL clear glass with caps ^e	unfiltered	Ice	180 days
	Dissolved Gasses (N ₂ , Ar, CH ₄ , CO ₂ , O ₂)	2 - 150 mL glass serum bottle	unfiltered	Ice	180 days
	Dissolved gasses (He, Ne, Ar, Kr, Xe)	2 - copper tubes	unfiltered	none	10 years
LC 1369	Radon-222	1-Radon sampling bottle	unfiltered	Scintillation cocktail solution	48 hours ^d
	Ferrous Iron	None	unfiltered	None	Field
	Sulfide	None	unfiltered	None	Field
	Dissolved oxygen, low range	None	unfiltered	None	Field

TITLE

PROJECT NO.

Peter D. Wright 4/24/12